# Petriman, Viorica

From:

Petriman, Viorica

Sent:

Monday, July 21, 2014 9:18 AM

To:

Riva, Steven

Subject:

**Greenidge Reactivation** 

**Attachments:** 

Summary- GREENIDGE Reactivation.docx; ENCLOSURE 2-Greenidge Reactivation

Activities and Schedule (March 2014).pdf; ENCLOSURE 1.docx

Steve:

Please find attached the Summary of the PSD Applicability Analysis for the Greenidge Reactivation.



# Summary-PSD Applicability Analysis For Greenidge Generating Station Reactivation

7/21/2014

#### A. GENERAL INFORMATION

### 1. Description of Facility

Greenidge Generating Station (Greenidge or the facility) is a coal-fired electric generating unit, which is located in Dresden, Yates County, New York, on a 153-acre site on the western shore of Seneca Lake. The facility's emissions sources (or emission units) consist of: (1) a vintage 1953 tangentially-fired dry bottom pulverized coal boiler (identified as emission unit (EU) # 4 or Unit 4), rated at 1,117 million British Thermal Units (MMBTU) per hour (MMBTU/hr) as maximum heat input, and 109 megawatts (MW) gross power output (101 MW net power output); and (2) other emission units (solid fuel handling system, ash handling system, lime hydrating system, aqueous urea system urea system, insignificant combustion sources, etc.,).

### 2. Air Pollution Controls

The air pollution controls consist of selective catalytic reduction system (SCR), selective non-catalytic reduction system (SNCR) (for the control of NO<sub>x</sub> emissions), dry-scrubber (for the control of SO<sub>2</sub> emissions, and acid gases), activated carbon injection (for the control of mercury emissions), and baghouse (for the control of particulates emissions). These pollution controls were installed at the facility in 2006 as part of the U.S. Department of Energy (DOE) Clean Coal Technology Program. These pollution controls became fully operational on December 2007. The facility will employ continuous emission monitoring system (CEMS) to measure NO<sub>x</sub>, SO<sub>2</sub>, and PM emissions.

### 3. Fuels for the coal-fired boiler

Greenidge would be allowed to use the following fuels: coal (bituminous and sub-bituminous), as the primary fuel), fuel oil #2, diesel and kerosene, as startup and flame stabilization fuel, waste oil, unadulterated wood, waste wood from the laminated board furniture manufacturing processes, as supplemental fuels, and natural gas (when operating in gas reburn mode). Please note that these fuels were also authorized for use before the facility entering the protective lay-up.

### 4. Major Source Status

The facility has a potential to emit (PTE) that exceeds the applicable major source threshold. However, based on the NYSDEC (DEC)'s information, thus far, no PSD or Nonattainment NSR (NNSR) permit was issued to Greenidge. The area surrounding Greenidge is considered attainment for all criteria pollutants, except for ozone.

### 5. Permitting History

The last title V permit (Permit ID: 8-5736-00004-00013) was issued by DEC to Greenidge on November 5, 2007. This permit was terminated by DEC, at the facility's request, on November 28, 2012.

# B. FACTUAL BACKGROUND FROM ATLAS (GREENIDGE'S NEW OWNER) DOCUMENTS RELATED TO THE NNSR/PSD APPLICABILITY TO REACTIVATION OF GREENIDGE AND TITLE V APPLICATION

Please see <u>Enclosure 1</u> for details on the history/timelines related to the Greenidge's shutdown (protective lay-up).

- 1. <u>Duration of Shutdown, Intent of Owner and Plans to Restart</u>
  - On September 17, 2010, AES EE2, LLC (AEE2), the owner of Greenidge at that time, wrote to NYSO that it would be shutting down (i.e., placing the facility in temporary protective lay-up) its facility beginning March 18, 2011.
  - At the time of announcing the shutdown of Greenidge, in September 17, 2010, AEE2 stated
    that intends to take all steps within their control to avoid permanently shutting down.
    AEE2's management publicized its desire to resume operations at the facility, to the media.
    AEE2, also, stated that would explore any alternatives within its suppliers, and explore ways
    to reduce its costs.
  - On March 18, 2011, the Greenidge coal-fired boiler (Unit 4) was taken off line.
  - On December 30, 2011 AEE2 filed Chapter 11 bankruptcy protection.
  - On October 10, 2012, AEE2 entered into an Asset Purchase Agreement to sell Greenidge to GMMM Holdings (GMMM). GMMM had two options regarding Greenidge, either to sell the Greenidge to a different entity or to scrap the facility.
  - On December 28, 2012, GMMM purchased Greenidge from AEE2.
  - On January 22, 2013, Atlas Holdings LLC (Atlas), a potential buyer of Greenidge at that time, contacted DEC to discuss the re-issuance of air permit to Greenidge so that Atlas could reactivate the facility.
  - On January 24, 2013, GMMM- the owner of Greenidge at that time wrote to DEC to request to rescind AAE2's surrender of title V air permit. In its letter, GMMM stated that the GMMM's original intent was to scrap Greenidge.
  - On March 14, 2013, Atlas wrote to DEC, that is finalizing the purchase of Greenidge, from GMMM, and that they plan to restart the facility. Additionally, Atlas requested a NNSR/PSD inapplicability determination for the reactivation of Greenidge, and submitted its own determination that NNSR/PSD is not applicable to the Greenidge reactivation

- On April 1, 2014, Atlas wrote to DEC that purchased Greenidge. In addition, Atlas requested a NNSR/PSD inapplicability determination for the reactivation of Greenidge, and submitted its own determination that NNSR/PSD is not applicable to the Greenidge reactivation.
- On May 16, 2014, Atlas submitted the title V application for Greenidge to DEC, and requested again a NNSR/PSD inapplicability determination for the reactivation of Greenidge. Atlas also submitted its own determination that NNSR/PSD is not applicable to the Greenidge reactivation.

### 2. Reason for Shutdown

According to the documents provided to DEC, and AEE2's statements in the media Greenidge was placed in a temporary protective lay-up because Greenidge was not competitive enough, the market forecast showed that, at least for the next couple of years, Greenidge would not be competitive, and the facility was operating at net loss. The reasons for non-competitiveness, given by the AEE2, were: (1) high cost of coal; (2) low cost of natural gas; and (3) low demand of demand of electricity.

### 3. Ongoing Maintenance at the Facility during Shutdown

Before entering the protective lay-up, AEE2 planned the lay-up preparation activities, steps, and maintenance activities (which were included in a lay-up plan) that would be carried out during lay-up period in order to maintain quick restart capability. Based on the Atlas's documents, it seems that the facility has been maintained during the protective lay-up (from March 18, 2011 to present).

### 4. Status of Permits

During the shutdown, all facility's permits were kept up to date, except for the title IV and V air permits. Additionally, Greenidge remained listed in the State's emissions inventory.

On November 28, 2012, AEE2 wrote to DEC to request to terminate their title V air permit. At that time (in November 2012) AEE2 was in the process of closing the deal of selling Greenidge to GMMM. It seems that GMMM's counsel advised AEE2 to surrender the facility's air permit; AEE2, in its November 28, 2012 letter to DEC, stated that **GMMM intended to scrap** the facility.

### 5. Cost and Time Required Reactivating the Facility

The total projected cost of the Greenidge reactivation is \$275,000. As stated by Atlas, the nature of work needed to reactivate (restart) the facility is similar to the maintenance activities that would normally occur during any scheduled outage, and it will take about 30 days.

### 6. Type of Operating Loads after Reactivation: Switching from Base load to Peaking Unit

As described by Atlas in its March 14, 2013 letter to DEC, while, Greenidge was operated as a **base load** unit with a capacity factor of 55-75%, Atlas, after reactivation, intends to operate Greenidge as a **peaking unit** with a capacity factor of less than 50%.

# 7. NO<sub>x</sub> Short Term Emission Limits after Facility's Reactivation Indicate Operation as Cycling Unit

The following short-term NO<sub>x</sub> limits [expressed as pounds per MMBTU (lb/MMBTU)], for <u>various gross power output</u> (MW) levels generated by the boiler, are included in the Atlas' title V application, as well as in the DEC's pre-draft title V air permit. However, while these NO<sub>x</sub> emissions limits may be an indication of a cycling operation mode of boiler, Atlas provides no discussion as to whether the coal-fired boiler would be operated as a cycling unit (i.e., cycle on and off).

Additionally, please note that, both, the title V application and the DEC <u>pre-draft</u> title V air permit, list these NO<sub>x</sub> short-term limits <u>under the authority of 40 CFR 52.21</u>. However, there is no explanation provided in either the application or the pre-draft permit for using the 40 CFR 52.21 citations.

Table 1: Greenidge-Proposed NO<sub>x</sub> Emission Limits for the coal-fired boiler (Unit 4)

NO <sub>x</sub> Emission Limit	Gross Power Output: MW
0.42 lb/MMBTU	For less or equal to 42 MW
0.35 lb/MMBTU	For greater than 42 MW and less or equal to 52 MW
0.28 lb/MMBTU	For greater than 52 MW and less or equal to 68 MW
0.17 lb/MMBTU	For greater than 68 MW

The above NO<sub>x</sub> lb/MMBTU limits are based on 30 days rolling average.

Please note that the <u>last title V air permit</u>, which was issued by DEC to Greenidge on November 5, 2007, does <u>not contain any short-term or annual NO<sub>x</sub> emission limits.</u>

### 8. NO<sub>x</sub> Short Term Limits do not meet NYCRR Subpart 227-2-NO<sub>x</sub> RACT emission limit

The NYCRR Subpart 227-2-NO<sub>x</sub> RACT limit, which is applicable to the Greenidge's coal-fired boiler, is <u>0.12 lb/MMBTU/hr</u> (based on 30 days rolling average). However, please note that, as shown in Table 1 above, the NO<sub>x</sub> emission limits proposed by Atlas in its title V application do <u>not</u> comply with the NO<sub>x</sub> RACT limit of 0.12 lb/MMBTU, and there is <u>no approved emission source specific NO<sub>x</sub> RACT emission limit</u> for the Greenidge coal-fired boiler. In addition, based on our information, thus far, Atlas has <u>not</u> requested DEC to set an emission source specific limit. Furthermore, please note that <u>condition 88 of DEC's title V pre-draft</u> air permit requires Atlas

compliance with the NO<sub>x</sub> RACT limit of 0.12 lb /MMBTU. However, as stated by the DEC's staff, this requirement was inadvertently included in the pre-draft permit, and, thus, it would be removed.

Moreover, please note that based on EPA's review, and, as discussed below it seems that, thus far, Greenidge is unable to meet the 0.12 lb/MMBTU NO<sub>x</sub>.

The performance goals of DOE, when they installed the SNCR and SCR to control the NO<sub>x</sub> emissions of the Greenidge's coal-fired boiler were to reduce the NO<sub>x</sub> emissions to 0.10 lb/MMBTU. However, based on the DOE 2010 Report, except for the guarantee test period (which lasted 12 hours, while the coal-fired boiler operated at 105 MW) when the NO<sub>x</sub> emissions rate of 0.10 lb/MMBTU was achieved, Greenidge's boiler was unable to achieve the targeted NO<sub>x</sub> emission rate of 0.10 lb/MMBTU in long term tests. Based on the DOE's CEMS data between October 2007 and September 2008, the average NO<sub>x</sub> emissions rate was 0.14 lb/MMBTU, which is greater than the NO<sub>x</sub> RACT limit of 0.12 lb/MMBTU. Additionally, as indicated by the DOE's data, the level of NO<sub>x</sub> emissions resulting from the Greenidge's boilers are a function of the boiler's power output (gross MW generated by the boiler). At high loads (above 68 MW gross power output) the NO<sub>x</sub> emissions are less than or equal to 0.14 MMBTU. However, at loads below 68 MW, the NO<sub>x</sub> emissions may be significantly higher than 0.14 lb/MMBTU.

Furthermore, based on the actual emissions data presented on the EPA's Clean Air Markets-Air Markets Program Data web site, the actual lb of NO<sub>x</sub> /MMBTU emissions resulting from the Greenidge's coal-fired boiler (Unit 4) are exceeding the NO<sub>x</sub> RACT limit of 0.12 lb/MMBTU. The NO<sub>x</sub> actual emissions expressed as lb/MMBTU values, which are included in Table 2 below, represent the annual average lb of NO<sub>x</sub>/MMBTU supplied by CEMS.

Table 2: Greenidge-coal-fired boiler-Actual NOx emissions-EPA's Clean Air Markets-Air Markets Program Data web site

Parameter	2007	2008	2009	2010	2011	Average
					( boiler was taken offline on March 18, 2011)	2007 to 2011
NO <sub>x</sub> Actual Emissions	0.199	0.168	0.172	0.203	0.247	0.198
lb/MMBTU						
(from CEMS)						

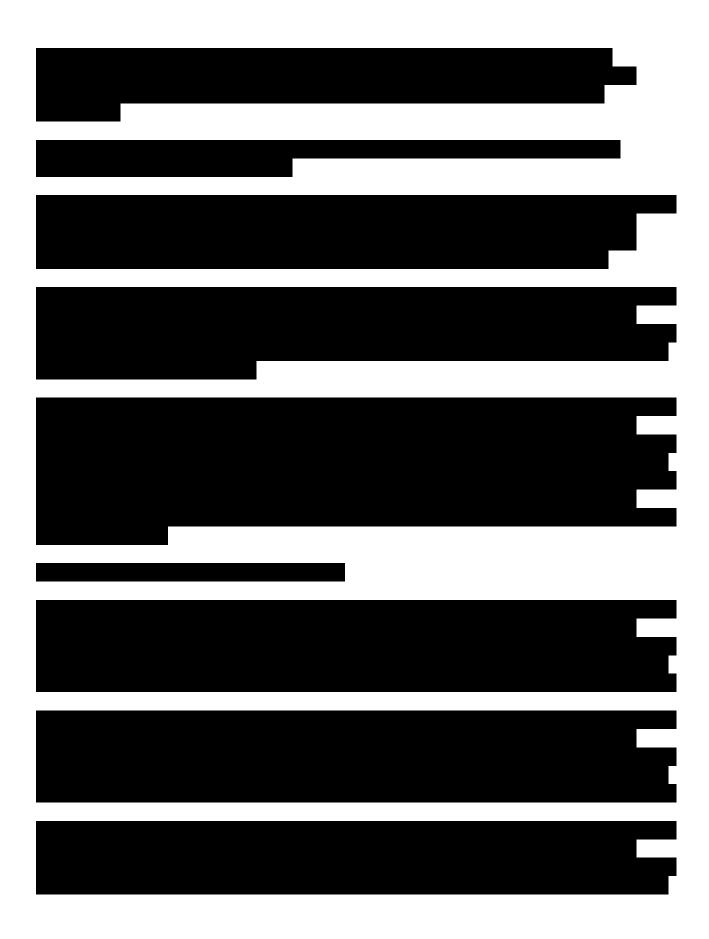
# C. CONCLUSION OF ATLAS: NNSR /PSD IS NOT APPLICABLE TO REACTIVATION OF GREENIDGE

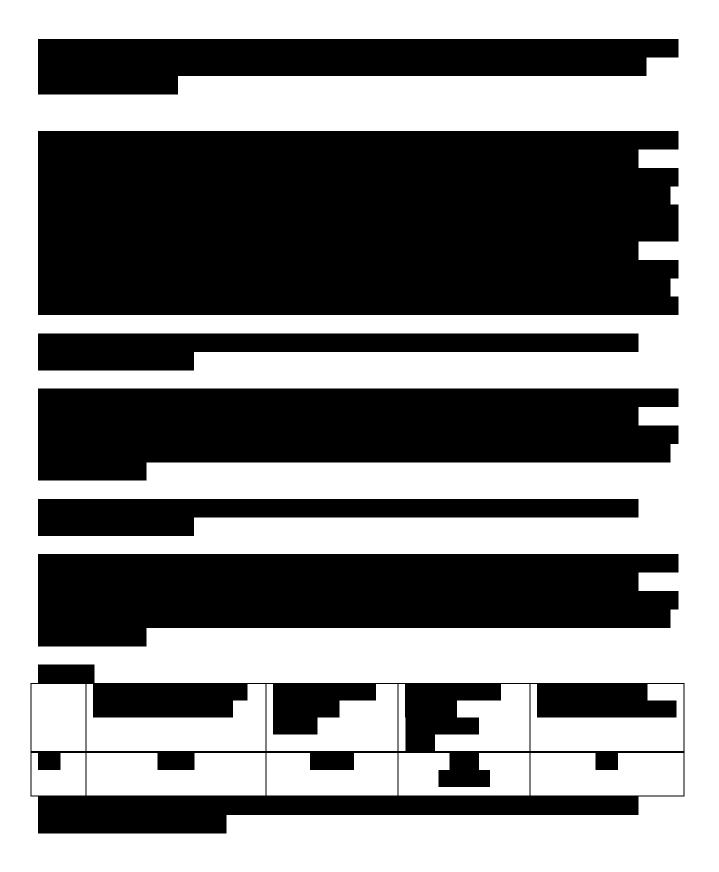
- 1. The Restart of Greenidge is Not Subject to NNSR/PSD as a New Source because:
  - a. Greenidge has been in protective lay-up for less than 2 years when Atlas has first informed DEC that intends to restart Greenidge
  - b. For the duration of lay-up Greenidge has been maintained in the State's emission inventory
  - c. The statements made by the by AEE2 at the time of Greenidge's shutdown shows that the shutdown was not intended to be permanent
  - d. Greenidge, throughout the duration of lay-up, has been maintained in "a state of constant technical readiness"
  - e. The activities required to restart the facility are routine maintenance activities, which will cost less than \$ 275,000 and would require about 30 days to be completed.
- 2. The Restart of Greenidge is Not Subject to NNSR/PSD as a Major Modification

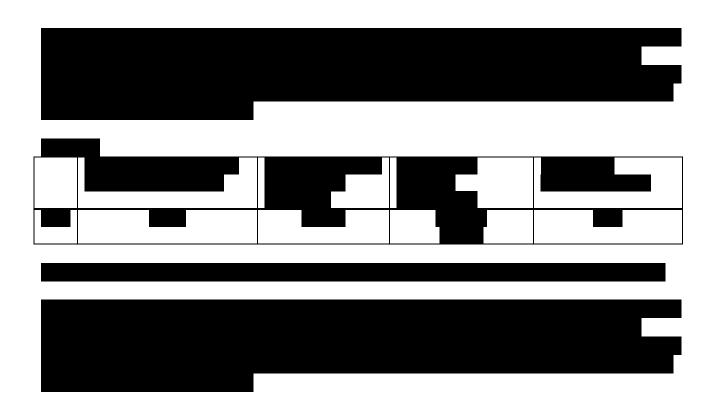
The Restart of Greenidge is Not a Major Modification based on Physical Change or a Change in the Method of Operation, because:

- a. The activities required to restart the facility would involve only routine, maintenance, repair, replacement, which are exempt from NNSR/PSD;
- b. Even though the activities were not exempt from NNSR/PSD, Greenidge would still not be subject to NNSR/PSD review as a major modification, because "the post-restart emissions, when compared with the baseline emissions, will not exceed the major modification thresholds"
- c. After reactivation, Greenidge will not be operated differently that it was before shutdown.
- d. Since, Greenidge has only been shutdown for less than 2 years: (1) The act of restarting the facility is not itself a change in the method of operation; and (2) Greenidge is unlike a long-dormant facility where the baseline is zero, and where the restart may be considered a change in operations. Greenidge's baseline actual emissions are not zero. Greenidge was operated in 2008, 2009, 2010, and part of 2011.

EPA-CONCLUSION A POLICY-TO REACTIV	PPLICABI VATION O	LITY OF F	eslad	J
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ENCLOSURE I 7/21/2014

**Table 1-Greenidge Protective Lay-up History and Timelines** 

Purpose of Document or Action	Date	Description of Document/Action
Notice of Protective Lay-up from AES EE2, LLC (AEE2), owner of Greenidge Generating Station (Greenidge) to New York Independent System Operator (NYISO)	September 17, 2010	To inform NYISO that AEE2 is placing Greenidge in protective lay-up "temporary" effective May 18, 2011 due to economic constraints [because the unit was operating at net loss and not economic at this time].  Other: Protective lay-up Plan, and facility's statements Before placing the facility in protective lay-up, AEE2 planned the lay-up preparation activities, steps, and maintenance activities that would be completed at the facility during lay-up period in order to maintain quick restart capability.  AEE2 stated in the newspapers and letter, "Greenidge is not competitive because of the high cost of coal and low cost of natural gas and the demand of electricity is low. All these factors have made the plant not competitive, and the market forecast show that, at least in the next couple of years-Greenidge cannot be competitive enough. Greenidge is operating at net loss." AEE2 stated that they intend to take all steps within their control to avoid permanently shutting down; AEE2 stated that they will explore any alternatives within their suppliers, and explore ways to reduce their costs. AEE2's management publicized their desire to resume operations at the facility, to the media.
2. Greenidge went into protective lay-up	March 18, 2011	The reasons of entering the lay-up were economic in nature-see above description.  AEE2 has maintained interconnection to the NYS Electric and Gas electric transmission system and the facility operated and generated electricity up until March 18, 2011, when the boiler was taken off line. The coal ash handling emission source, remained active until July 2011.  AEE2 continued to employ personnel who completed the lay-up preparation activities until June 30, 2011  AEE2 continued to employ a maintenance manager, an operator, and a maintenance technician at the facility during protective lay-up period to complete all maintenance activities required to preserve the protective lay-up and to be able to restart the facility quickly; Throughout its ownership, AEE2 continued the maintenance activities to ensure quick reactivation, and regulatory compliance

Table 1-Continued

Purpose of Document or Action	Date	Description of Document/Action
3. AEE2 filed to Chapter 11 bankruptcy protection	December 30, 2011	Due to deteriorating its financial condition, AAE2 filed for bankruptcy.
4. AEE2 submitted a Title V renewal application to DEC	May, 2012	In anticipation of the facility resuming normal operations, AEE2 submitted a renewal title V application to DEC.
		DEC has created a working copy of draft renewed title V permit for the facility
5. AEE2 entered into an Asset Purchase Agreement to sell Greenidge, and other facilities in NY State to GMMM Holdings I, LLC (GMMM)	October 10, 2012	
6. AEE2 sent letter to DEC informing that they surrender the title IV and V air permits of their	November 28, 2012	AEE2 needed to close the selling deal with GMMM by December 28, 2012;
facility		AEE2, in its November 28, 2012 letter to DEC, stated that GMMM intended to scrap the facility.
7. GMMM purchased the facility from AEE2 with the approval of the bankruptcy court	December 28, 2012	
8. Atlas Holdings LLC ( <b>Atlas</b> ), a potential buyer of Greenidge at that time, spoke with DEC regarding the re-issuance of the air permits to Greenidge so that Atlas could reactivate and resume operations	January 22, 2013	
9. Letter from GMMM requesting DEC to rescind AEE2's surrender of the facility's air permits	January 24, 2013	It this letter, GMMM's attorney, Mr. David Pierce, stated that the GMMM's original intent was to scrap the facility. However, GMMM continued to maintain the protective lay-up activities.
10. Atlas, and GMMM participated in a teleconference with DEC, and discussed the submission of title V permit application and related issues	February 1, 2013	
11. Greenidge is still on the DEC's emission inventory list	February 21, 2013	
12. Atlas and GMMM participated in a follow-up meeting with DEC to discuss the resumption of operations at the facility	February 22, 2013	

Table 1-Continued

Purpose of Document or Action	Date	Description of Document/Action
13. Letter from Atlas Holdings, LLC (Atlas) to NYSDEC	March 14, 2013	In this letter, Atlas informed DEC that Atlas is finalizing a contract to purchase the Greenidge Generating Station from GMMM;
		Atlas states that upon completing the purchase, they will bring Greenidge out of its protective lay-up and resume normal operation;
		Atlas requested a NSR/PSD inapplicability determination from DEC, regarding the reactivation of Greenidge, because of the following:  • Short duration in the protective lay-up status –less than two years
		<ul> <li>The facts surrounding the facility protective lay-up status</li> <li>The owner's intent not to permanently deactivate the facility, particularly at the time the facility entered protective lay-up status</li> </ul>
		Atlas stated that to restart Greenidge as an electrical generating station will require only minimal maintenance activities to be completed, similar to the maintenance that would normally occur during any scheduled outage. Greenidge can be operational in less than 30 days, at a cost of less than \$ 275,000.
		Atlas stated that in its last <u>few years of operation</u> , Greenidge operated as a <u>base load</u> facility with a capacity factor of 55-75%;
		Atlas stated that they plan to operate the facility as a <u>peaking unit</u> with a capacity factor of less than 50 %
14. Atlas acquired Greenidge from GMMM	February 28, 2014	

Table 1-Continued

Purpose of Document or Action	Date	Description of Document/Action
15. Letter from Atlas to DEC	April 1, 2014	<ul> <li>The purpose of the letter:</li> <li>To inform DEC that Atlas has purchased Greenidge from GMMM, and they will bring Greenidge out its protective lay-up</li> <li>To request DEC to issue a NSR/PSD non-applicability determination letter related to the reactivation of Greenidge</li> <li>To request the issuance of a new title V permit, and indicate that a title V application will be submitted to DEC during April 2014.</li> <li>Atlas provides rationale (i.e., EPA's letters, etc.,) to support the conclusion that Greenidge's reactivation does not represent a new source or a major modification subject to PSD/NSR.</li> </ul>

Table 1-Continued

<b>Purpose of Document or Action</b>	Date	Description of Document/Action
16. Atlas submits title V Application for Greenidge and PSD and NSR Non-Applicability Analysis for Greenidge's Reactivation	May 16, 2014	Atlas provided the rationale to support the statement that Greenidge was not permanently shutdown, because the lay-up lasted for less than 2 years. [Atlas states that their request to resume operation at the facility was made on January 22, 2013, which is less than two years after the facility was placed into protective lay-up]. So that, Atlas concludes that the reactivation is not presumed to be permanent.  Atlas stated that the owner's intent was not to permanently deactivate the facility, particularly at the time the facility entered protective lay-up status, and the facility was maintained throughout the lay-up.  Atlas concluded that because of the above-mentioned reasons Greenidge's reactivation does not constitute a new major source.  Atlas stated that the restart of Greenidge will require only regular routine maintenance work normally completed during a maintenance outage, and
		therefore the activities are exempt from NSR/PSD requirements as RMRR.  Greenidge will not be operated differently after restart, and the post-restart emissions from Greenidge, when compared with the baseline emissions, will not exceed the major modification thresholds.  Atlas stated that since Greenidge was only been in protective lay-up for a short duration. Greenidge baseline actual emissions are not zero: Greenidge
		short duration, Greenidge baseline actual emissions are not zero; Greenidge operated in 2008, 2009, 2010, and part of 2011, and therefore the baseline actual emissions can be established;

			LOCOINE						
ID 6 Task Name	Duration	% Complete	Start	Finish Predecessors	Resource Names	Remaining Ba Cost	seline 4 Cost	Mar 23, '14 Mar 30, '14   Apr 6, '14   Apr 13, '14   A B   M   W   F   S   T   T   S   M   W   F   S   T   T   S	pr 20, '14 Apr 27, '1 M W F S T T
0 Lay-up Reactivation -Start-up Schedule	84.63 days	s 0%	Thu 3/27/14	Thu 4/24/14		\$273,080 \$2	·		7
1 Safety Systems	10 days	s 0%	Thu 3/27/14	Wed 4/9/14		\$27,360	\$27,360		
2 1.1 Inspect and Distribute Fire Extinguishers	3 day	s 0%	Thu 3/27/14	Mon 3/31/14	Monroe	\$2,400	\$2,400	Monroe Monroe	
3 1.2 Reenergize Safety Showers/ Potable Water Systems	5 day	s 0%	Thu 3/27/14	Wed 4/2/14	Pipefitter 2s	\$5,600	\$5,600	Pipefitter 2s	
4 1.3 Reenergize and Inspect 4 Unit Deluge System	5 day	s 0%	Thu 4/3/14	Wed 4/9/14 10	Simplex Grinnell	\$5,600	\$5,600	Simplex Grinnell	
5 1.4 Reenergize and Inspect Elevators	3 day	s 0%	Thu 3/27/14	Mon 3/31/14	Otis	\$4,800	\$4,800	Otis	
6 1.5 Crane Inspections	5 day	s 0%	Thu 3/27/14	Wed 4/2/14	Crane Pro	\$4,800	\$4,800	Crane Pro	
7 1.6 Hand Tool, GFI, and Extension Inspections	2 day		Thu 3/27/14	Fri 3/28/14	O'Connell 2s	\$2,240	\$2,240	O'Connell 2s	
8 1.7 Rigging Inspections	2 day		Thu 3/27/14	Fri 3/28/14	Crane Pro	\$1,920	\$1,920	Crane Pro	
9 2 House Service Water System	5 days		Thu 3/27/14		Grane 1 10		\$11,200		
	-				Discourage of the second				
2.1 Energize and Repair Leaks	5 day		Thu 3/27/14		Pipefitter 4		\$11,200	Priperitter 4	
3 Compressed Air System	4 days		Thu 3/27/14			\$4,480	\$4,480		
12 3.1 Energize	1 da	y 0%	Thu 3/27/14	Thu 3/27/14	IR 2	\$1,120	\$1,120	piR 2	
13 3.2 Fill VFD with oil	3 day	s 0%	Fri 3/28/14	Tue 4/1/14 12	IR 2	\$3,360	\$3,360	iR 2	
14 4 Control System	18 day	s 0%	Thu 3/27/14	Mon 4/21/14		\$20,160	\$20,160		▼
15 4.1 DCS- Software Upgrade	3 day	s 0%	Thu 3/27/14	Mon 3/31/14	Ovation	\$3,360	\$3,360	Ovation	
16 4.2 DPU Maintenance	10 day	s 0%	Tue 4/1/14	Mon 4/14/14 15	Ovation	\$11,200	\$11,200	Ovation	
4.3 Safety Interlock Test	5 day	s 0%	Tue 4/15/14	Mon 4/21/14 16	Ovation	\$5,600	\$5,600		Ovation
18 5 Reverse Osmosis	5 day	s 0%	Thu 3/27/14	Fri 3/28/14		\$1,920	\$1,920		
19 5.1 Reconnect all Water Pipes, Change filters, start-up	5 day	s 0%	Thu 3/27/14	Fri 3/28/14	US Filter	\$1,920	\$1,920	us Filter	
20 2 6 Electrical Distribution System	14 days	s 0%	Thu 3/27/14	Tue 4/15/14		\$101,120	101,120		
21 22 6.1 Breakers	9 days	s 0%	Thu 3/27/14	Tue 4/8/14		\$20,160	\$20,160	<b></b>	
22 6.1.1 2400 Volt Breakers - PM	3 day		Thu 3/27/14		HMT 4b	\$6,720	\$6,720	HMT 4b	
23 6.1.2 480 Volt Breakers - Service	3 day		Tue 4/1/14		HMT 4b	\$6,720	\$6,720	HMT 4b	
	3 day		Fri 4/4/14		HMT 4b	\$6,720	\$6,720	HMT 4b	
	1				HIWIT 40				
25 6.2 Relays	5 days		Wed 4/9/14			\$5,600	\$5,600		
6.2.1 IPP Relay Testing	3 day		Wed 4/9/14		IETS 2r	\$3,360	\$3,360	ETS 2r	
6.2.2 Non-IPP Relay Testing	2 day	s 0%	Mon 4/14/14	Tue 4/15/14 26	IETS 2r	\$2,240	\$2,240	IETS 2r	
6.3 Transformers	10 days	s 0%	Thu 3/27/14	Wed 4/9/14		\$26,320	\$26,320		
29 2 6.3.1 4A GSU	6 days	s 0%	Thu 3/27/14	Thu 4/3/14		\$13,440	\$13,440		
30 6.3.1.1 Dobble Test 4A	1 da	y 0%	Thu 3/27/14	Thu 3/27/14	HMT 4	\$2,240	\$2,240	D HMT 4	
31 6.3.1.2 4A Bushing repairs	2 day	s 0%	Fri 3/28/14	Mon 3/31/14 30	HMT 4	\$4,480	\$4,480	HMT 4	
32 6.3.1.3 Test Protective Relays	2 day	s 0%	Tue 4/1/14	Wed 4/2/14 31	HMT 4	\$4,480	\$4,480	<b>Б.</b> нмт 4	
33 6.3.1.4 Energize	1 da	y 0%	Thu 4/3/14	Thu 4/3/14 32	HMT 4	\$2,240	\$2,240	5,HMT 4	
34 2 6.3.2 4B GSU	4 days	s 0%	Fri 4/4/14	Wed 4/9/14		\$8,960	\$8,960		
35 6.3.2.1 4B Dobble Test	1 da		Fri 4/4/14	Fri 4/4/14 33	HMT 4	\$2,240	\$2,240	EHMT 4	
36 6.3.2.2 Test Protective Relays	2 day		Mon 4/7/14		HMT 4	\$4,480	\$4,480	HMT 4	
	1 da		Wed 4/9/14		HMT 4	\$2,240	\$2,240	5-HMT 4	
						\$1,120	\$1,120	\$.HMT 2	
6.3.3 4 House Lighting Transformer - Clean and Test	1 day		Thu 3/27/14		HMT 2				
6.3.4 4A & 4B House Service Transformers - Clean and Test	1 day		Fri 3/28/14		HMT 2	\$1,120	\$1,120	1 HMT 2	
6.3.5 MPC Transformer - Clean and Test	0.5 days	s 0%	Mon 3/31/14	Mon 3/31/14 39	HMT 2	\$560	\$560	HMT 2	
6.3.6 Environmental Transformers -Clean and Test	1 day	y 0%	Mon 3/31/14	Tue 4/1/14 40	HMT 2	\$1,120	\$1,120	HMT 2	
0.3.0 Environmental Hansiotiners -Clean and Test	ı day	y U%	WION 3/31/14	1 ue 4/1/14 40	171VI I Z	φ1,120	1,120 ب		

Project Lay-up Reactivation -Start-up Date: Mon 3/3/1/4 a on 1/2 on 1/2 on 1/2 on 1/2 on 1/2

Task Name	3		% Complete	Start	Finish Predecessors	Resource Names	Remaining	Baseline 4 Mar 23	3, '14 Mar 30, '14	Apr 6, '14   Apr 1'	3, '14 Apr
	.4 Turbine	9 days	0%	Tue 4/1/14	Mon 4/14/14 41		Cost \$49,040	Cost S M V \$49,040	WFSTT	Apr 6, '14   Apr 13 S   M   W   F   S   T	TSM
-	6.4.1 General Electric Support	9 days	0%	Tue 4/1/14	Mon 4/14/14	GE	\$49,040	\$49,040			
<u></u>	6.4.1.1 TOR	6 days	0%	Tue 4/1/14	Wed 4/9/14	-	\$4,480	\$4,480		<b>—</b>	
	6.4.1.1.1 Clean TOR Oil Coolers	1 day	0%	Tue 4/1/14	Wed 4/2/14	Millwright 2	\$1,120	\$1,120	Mill	wright 2	
	6.4.1.1.2 Clean TOR	2 days	0%	Wed 4/2/14	Fri 4/4/14 45	Millwright 2	\$2,240	\$2,240		Millwright 2	
	6.4.1.1.3 Replace Bowser Filter Bags	1 day	0%	Fri 4/4/14	Mon 4/7/14 46	Millwright 2	\$1,120	\$1,120	III T	Millwright 2	
8	6.4.1.1.4 Energize Transfer Pumps	1 day	0%	Mon 4/7/14	Tue 4/8/14 47	Operations	\$0	\$0		Operations	
-	6.4.1.1.5 Transfer Oil from Storage tank to TOR		0%	Tue 4/8/14	Wed 4/9/14 48	·	\$0	\$0		Operations	
9 2	<u> </u>	1 day				Operations	\$0	SO		Operations	<u> </u>
	6.4.1.2 Iron Horse	7 days	0%	Tue 4/1/14	Thu 4/10/14	Maria					
	6.4.1.2.1 Clean Plate Cooler	1 day	0%	Tue 4/1/14	Wed 4/2/14	Maintenance	\$0	\$0	Imai	menance .	
2	6.4.1.2.2 Energize Pumping System	1 day	0%	Wed 4/9/14	Thu 4/10/14 49,51	Operations	\$0	\$0		Operation	ns
4	6.4.1.3 Full Flow Filters	0.5 days	0%	Wed 4/2/14	Wed 4/2/14		\$0	\$0	1 1		
4	6.4.1.3.1 Service and Change Filters	0.5 days	0%	Wed 4/2/14	Wed 4/2/14 51	Maintenance	\$0	\$0	<u>I</u> Mai	ntenance	
4	6.4.1.4 Turning Gear	1 day	0%	Tue 4/1/14	Wed 4/2/14		\$0	\$0	-		
6	6.4.1.4.1 PM Turning Gear Motor	1 day	0%	Tue 4/1/14	Wed 4/2/14	I&E	\$0	\$0	al&E		
4	6.4.1.5 Control Valves	9 days	0%	Tue 4/1/14	Mon 4/14/14		\$6,720	\$6,720		+++++	
3	6.4.1.5.1 Lube Upper and Lower Control Valves	1 day	0%	Tue 4/1/14	Wed 4/2/14	Millwright 2	\$1,120	\$1,120	C Mill	wright 2	
· •	6.4.1.5.2 Repair Steam Leak on Upper Control Valves	5 days	0%	Mon 4/7/14	Mon 4/14/14 47	Millwright 2	\$5,600	\$5,600			illwright
'	6.4.1.6 Main Stop Valve	2 days	0%	Tue 4/1/14	Wed 4/2/14		\$1,120	\$1,120	w		
1	6.4.1.6.1 Place Screen In Steam Path	2 days	0%	Tue 4/1/14	Wed 4/2/14	Millwright 2	\$560	\$560	@ Millv	vright 2	
2	6.4.1.6.2 Remove Screen From Steam Path	2 days	0%	Tue 4/1/14	Wed 4/2/14	Millwright 2	\$560	\$560	@ Milly	vright 2	
<u> </u>	6.4.1.7 Condenser	5 days	0%	Tue 4/1/14	Tue 4/8/14		\$14,480	\$14,480		₩	
	6.4.1.7.1 Condenser Cleaning	5 days	0%	Tue 4/1/14	Tue 4/8/14	Conco	\$10,000	\$10,000		Conco	
	6.4.1.7.2 Flood Test & Repair	2 days	0%	Tue 4/1/14	Thu 4/3/14	Millwright 2	\$2,240	\$2,240	Mi	illwright 2	
	6.4.1.7.3 Drain and Close	2 days	0%	Tue 4/1/14	Thu 4/3/14	Millwright 2	\$2,240	\$2,240		illwright 2	
	6.4.1.8 Hydrogen Generator	2 days	0%	Tue 4/1/14	Wed 4/2/14	-	\$0	\$0			
	6.4.1.8.1 Procure and Replace Hydrogen Generator	2 days	0%	Tue 4/1/14	Wed 4/2/14		\$0	\$0			
<u>-</u>	6.4.1.9 Generator	9 days	0%	Tue 4/1/14	Mon 4/14/14		\$10,720	\$10,720			
	6.4.1.9.1 EX-2100 Voltage Regulator Inspection & check	1 day	0%	Tue 4/1/14	Wed 4/2/14	GE	\$1,280	\$1,280	GE		4.44
	6.4.1.9.2 Calibrate automatic voltage regulator - calibrate old exciter amps transducer	1 day	0%	Wed 4/2/14	Thu 4/3/14 70	GE	\$1,280	\$1,280	ĞGI		
							\$1,280	\$1,280		aintenance	
2 112	6.4.1.9.3 Hydrogen Coolers-Clean	2 days	0%	Tue 4/1/14	Thu 4/3/14	Maintenance					
3 3	6.4.1.9.4 Electrical Test Generator	2 days	0%	Thu 4/3/14	Mon 4/7/14 71	GE	\$2,560	\$2,560			
4	6.4.1.9.5 Dehumidify Generator	5 days	0%	Thu 4/3/14	Thu 4/10/14 71	Millwright 2	\$5,600	\$5,600		Millwrigh	t 2
5	6.4.1.9.6 Purge and Gas Generator	2 days	0%	Thu 4/10/14	Mon 4/14/14 74	Operations	\$0	\$0		Ор	erations
5 🔁	6.4.1.10 Exciter	1 day	0%	Tue 4/1/14	Wed 4/2/14		\$0	\$0	<b>-</b>		
7	6.4.1.10.1 PM main Exciter Clean Exciter, Change Brushes	1 day	0%	Tue 4/1/14	Wed 4/2/14	I&E	\$0	\$0	<b>□</b> I&E		
<sup>3</sup>	iler	6.75 days	0%	Thu 4/10/14	Fri 4/18/14 37		\$35,900	\$35,900			₹
_	.1 Furnace	2 days	0%	Mon 4/14/14	Tue 4/15/14		\$0	\$0		•	
0 12	7.1.1 Boiler Inspection - Operating Certificate	1 day	0%	Tue 4/15/14	Tue 4/15/14 81	Maintenance	\$0	\$0			Maintena
1 1	7.1.2 Hydro/Air Test Boiler	1 day	0%	Mon 4/14/14	Mon 4/14/14 83	Maintenance	\$0	\$0		<b>₽</b> M:	aintenand
2 <b>7</b>	2.2 Waterwalls & WW Headers	2 days	0%	Thu 4/10/14	Fri 4/11/14		\$2,240	\$2,240		•	
33	7.2.1 Replace Hand hole plugs	2 days	0%	Thu 4/10/14	Fri 4/11/14	Boilermakers 2	\$2,240	\$2,240		Bollern	

			OSUKE		- h	10		00.144.04		
Task Name  7.3 Secondary Superheat Section	Duration 3 days	% Complete	Start Thu 4/10/14	Finish Predecessors  Mon 4/14/14	Resource Names	Remaining Cost \$3,360	Baseline 4 N Cost S \$3,360	M W F S	T T S M W F	4   Apr 13, '14   Apr 20, '14 F   S   T   T   S   M   W   F
<del>-</del>					Dailarmakara 2	\$3,360				Pollormokova 2
7.3.1 Inspect & Repair Sootblower erosion areas	3 days		Thu 4/10/14	Mon 4/14/14	Boilermakers 2					Boilermakers 2
7.4 Reheat Section	3 days	0%	Thu 4/10/14	Mon 4/14/14		\$3,360				7
7.4.1 Inspect & Repair Sootblower erosion areas	3 days	0%	Thu 4/10/14	Mon 4/14/14	Boilermakers 2	\$3,360				Boilermakers 2
7.5 Primary Superheat Section	1.5 days	0%	Thu 4/10/14	Fri 4/11/14		\$3,360	\$3,360		7	
7.5.1 Inspect & Repair erosion areas	12 hrs	0%	Thu 4/10/14	Fri 4/11/14	Boilermakers 2	\$1,680	\$1,680			Boilermakers 2
7.5.2 Erosion Screens Inspection & Repair	12 hrs	0%	Thu 4/10/14	Fri 4/11/14	Boilermakers 2	\$1,680	\$1,680			Boilermakers 2
7.6 Economizer Section	3 days	0%	Tue 4/15/14	Thu 4/17/14		\$6,720	\$6,720			<b></b>
7.6.1 Shielding Inspection & Repair	3 days	0%	Tue 4/15/14	Thu 4/17/14 87	Boilermakers 2	\$3,360	\$3,360			Boilermaker
7.6.2 Erosion Screens Inspection & Repair	3 days	0%	Tue 4/15/14	Thu 4/17/14 87	Boilermakers 2	\$3,360	\$3,360			<b>Boilermaker</b>
7.7 Steam Drum	3.38 days	0%	Thu 4/10/14	Tue 4/15/14		\$3,780	\$3,780		-	→
7.7.1 Inspect & Repair as needed Drum Internals	3 days	0%	Thu 4/10/14	Mon 4/14/14	Boilermakers 2	\$3,360	\$3,360			Boilermakers 2
7.7.2 Close Steam Drum	3 hrs	0%	Tue 4/15/14	Tue 4/15/14 95	Boilermakers 2	\$420	\$420			Boilermakers 2
7.8 Penthouse & Dead Air Spaces	3 days	0%	Thu 4/10/14	Mon 4/14/14		\$3,360	\$3,360		<b>,</b>	<b>4</b>
7.8.1 Inspect and Repair Dead Air, Penthouse Seals	3 days	0%	Thu 4/10/14	Mon 4/14/14	Boilermakers 2	\$3,360	\$3,360			Boilermakers 2
7.9 Safety Valves - Disassemble, Inspect, Reassemble, Test	6.75 days	0%	Thu 4/10/14	Fri 4/18/14		\$9,720	\$9,720			
_	6 hrs	0%	Thu 4/10/14	Thu 4/10/14	Portersville 2	\$1,080				Portersville 2
									1 1 1 1 1	Portersville 2
7.9.2 Steam Drum West	6 hrs	0%	Thu 4/10/14	Fri 4/11/14 100	Portersville 2	\$1,080				
7.9.3 Inlet Reheat Header East	6 hrs	0%	Fri 4/11/14	Mon 4/14/14 101	Portersville 2	\$1,080			•	Portersville 2
7.9.4 Inlet Reheat Header West X2	12 hrs	0%	Mon 4/14/14	Tue 4/15/14 102	Portersville 2	\$2,160				Portersville 2
7.9.5 Superheat Outlet Header East	6 hrs	0%	Tue 4/15/14	Wed 4/16/14 103	Portersville 2	\$1,080	\$1,080			Portersville 2
7.9.6 Superheat Outlet Header West	6 hrs	0%	Wed 4/16/14	Thu 4/17/14 104	Portersville 2	\$1,080	\$1,080			Portersville 2
7.9.7 Sootblowing Steam	6 hrs	0%	Thu 4/17/14	Thu 4/17/14 105	Portersville 2	\$1,080	\$1,080			Portersville
7.9.8 Stage Heaters	6 hrs	0%	Fri 4/18/14	Fri 4/18/14 106	Portersville 2	\$1,080	\$1,080			Portersville
7.10 Sootblowers	0.38 days	0%	Thu 4/10/14	Thu 4/10/14		\$0	\$0		•	
7.10.1 Inspect Sootblower Nozzles	3 hrs	0%	Thu 4/10/14	Thu 4/10/14	Maintenance	\$0	\$0			faintenance
8 Flash Tank	0.5 days	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	v		
8.1 Open and Inspect Flash Tank	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0	<u>I</u> -Mainte	nance	
8.2 Close Flash Tank	2 hrs	0%	Thu 3/27/14	Thu 3/27/14 111	Maintenance	\$0	\$0	<u>T</u> Main e	nance	
9 Ash Pit	4 days	0%	Thu 3/27/14	Tue 4/1/14		\$5,600	\$5,600	<b>,</b>		
9.1 Clean Ash Pit Seal	1 day	0%	Thu 3/27/14	Thu 3/27/14	Boilermakers 2	\$1,120	\$1,120	g Boilen	makers 2	
9.2 Repair Ash Pit as Needed	3 days	0%	Thu 3/27/14	Mon 3/31/14	Boilermakers 2	\$3,360		-111	Boilermakers 2	
9.3 Repair & Replace Ash Pit Nozzles	1 day	0%	Tue 4/1/14	Tue 4/1/14 115	Boilermakers 2	\$1,120			Boilermakers 2	
-	13.25 days	0%	Thu 3/27/14	Tue 4/15/14	DOILCIII IARCI S Z	\$16,600				
									_	
10.1 FD Fans	3.63 days	0%	Thu 3/27/14	Tue 4/1/14		\$3,920			7	
10.1.1 6A	1.63 days		Thu 3/27/14	Fri 3/28/14		\$1,960		7		
10.1.1.1 Bearing Oil Change	8 hrs		Thu 3/27/14	Thu 3/27/14	AAI 2	\$1,120		( AAI		
10.1.1.2 Fan Inspection	1 hr	0%	Fri 3/28/14	Fri 3/28/14 120	Maintenance	\$0	\$0	Maint	enance	
10.1.1.3 Motor Maintenance	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 120	AAI 2	\$560	\$560	AAI 2	'	
10.1.1.4 Coupling Maintenance	2 hrs	0%	Fri 3/28/14	Fri 3/28/14 121	AAI 2	\$280	\$280	TAAI 2		
10.1.1.5 Inspect/Repair Inlet Dampers	2 hrs	0%	Fri 3/28/14	Fri 3/28/14 121	Maintenance	\$0	\$0	Main	lenance	
10.1.1.6 Inspect Pezometer Ring Clean & Inspect	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 121	I&E	\$0	\$0	TI&E		

100	ask Name	Duration	% Complete	Start	Finish Predecessors		Remaining Cost	Baseline 4 Ma	r 23, '14 Mar 3 1 W F S T	30, '14   Apr 6	3, '14 Apr 13, W F S T	'14 Apr 20 T S M V	V
	10.1.1.7 Calibrate 606 A1/ A2 Transmitter	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 121	I&E	\$0	\$0	I-l&E				
7 🔁	10.1.2 6B	2.63 days	0%	Fri 3/28/14	Tue 4/1/14		\$1,960	\$1,960					
8	10.1.2.1 Bearing Oil Change	8 hrs	0%	Fri 3/28/14	Fri 3/28/14 120	AAI 2	\$1,120	\$1,120	AA 2				
9	10.1.2.2 Fan Inspection	1 hr	0%	Mon 3/31/14	Mon 3/31/14 128	Maintenance	\$0	\$0	М	aintenance			
0	10.1.2.3 Motor Maintenance	4 hrs	0%	Mon 3/31/14	Mon 3/31/14 129	AAI 2	\$560	\$560	A	Al 2			
1	10.1.2.4 Coupling Maintenance	2 hrs	0%	Mon 3/31/14	Mon 3/31/14 130	AAI 2	\$280	\$280	Ā	AI 2			
2	10.1.2.5 Inspect/Repair Inlet Dampers	2 hrs	0%	Mon 3/31/14	Tue 4/1/14 131	Maintenance	\$0	\$0	, i	Maintenance	Ð		
3	10.1.2.6 Inspect Pezometer Ring Clean & Inspect	4 hrs	0%	Tue 4/1/14	Tue 4/1/14 132	I&E	\$0	\$0	ř	I&E			
4	10.1.2.7 Calibrate 606 B1/ B2 Transmitter	4 hrs	0%	Fri 3/28/14	Mon 3/31/14 126	I&E	\$0	\$0	18	Æ			
5	10.2 ID Fans	11.25 days	0%	Mon 3/31/14	Tue 4/15/14		\$12,680	\$12,680	, <u> </u>		<del></del>		
6	10.2.1 6A	4.13 days	0%	Mon 3/31/14	Fri 4/4/14		\$4,200	\$4,200	<b>,</b>	₩			
7	10.2.1.1 Bearing Oil Change	3 days	0%	Mon 3/31/14	Wed 4/2/14 128	AAI 2	\$3,360	\$3,360		AAI 2			
8 3	10.2.1.2 Fan Inspection	1 hr	0%	Thu 4/3/14	Thu 4/3/14 137	Maintenance	\$0	\$0		Maintena	ance		
9	10.2.1.3 Motor Maintenance	4 hrs	0%	Thu 4/3/14	Thu 4/3/14 138	AAI 2	\$560	\$560		AAI 2			
0	10.2.1.4 Coupling Maintenance	2 hrs	0%	Thu 4/3/14	Thu 4/3/14 139	AAI 2	\$280	\$280		AAI 2			
	10.2.1.5 Inspect/Repair Inlet Dampers						\$0	\$200		Mainter	nance		
1 1		2 hrs	0%	Thu 4/3/14	Fri 4/4/14 140	Maintenance							
2	10.2.2 6B	4.13 days	0%	Thu 4/3/14	Wed 4/9/14	4410	\$4,200	\$4,200			<u></u>		
3	10.2.2.1 Bearing Oil Change	3 days	0%	Thu 4/3/14	Mon 4/7/14 137	AAI 2	\$3,360	\$3,360			Al 2		
4	10.2.2.2 Fan Inspection	1 hr	0%	Tue 4/8/14	Tue 4/8/14 143	Maintenance	\$0	\$0			Maintenance		
5	10.2.2.3 Motor Maintenance	4 hrs	0%	Tue 4/8/14	Tue 4/8/14 144	AAI 2	\$560	\$560			AAI 2		
6	10.2.2.4 Coupling Maintenance	2 hrs	0%	Tue 4/8/14	Tue 4/8/14 145	AAI 2	\$280	\$280			AAI 2		
7	10.2.2.5 Inspect/Repair Inlet Dampers	2 hrs	0%	Tue 4/8/14	Wed 4/9/14 146	Maintenance	\$0	\$0			Maintenance	,	
8 📆	10.2.3 Booster Fan	5.25 days	0%	Tue 4/8/14	Tue 4/15/14		\$4,280	\$4,280		#	$\overrightarrow{m}$		
9	10.2.3.1 Bearing Oil Change	16 hrs	0%	Tue 4/8/14	Wed 4/9/14 143	AAI 2	\$2,240	\$2,240			AAI 2		
0 1	10.2.3.2 Fan Inspection	10 hrs	0%	Thu 4/10/14	Fri 4/11/14 149	Maintenance	\$0	\$0			Maintena	ınce	
1 1	10.2.3.3 Motor Maintenance	4 hrs	0%	Fri 4/11/14	Fri 4/11/14 150	AAI 2	\$560	\$560			AAI 2		
2	10.2.3.4 Coupling Maintenance	2 hrs	0%	Fri 4/11/14	Fri 4/11/14 151	AAI 2	\$280	\$280			AAJ 2		
3	10.2.3.5 Inspect/Repair Inlet Dampers	2 hrs	0%	Mon 4/14/14	Mon 4/14/14 152	Maintenance	\$0	\$0			Mair	ntenance	
4	10.2.3.6 PM - Start Control	8 hrs	0%	Mon 4/14/14	Tue 4/15/14 153	Rockwell	\$1,200	\$1,200			a Ro	ockwell	
5	11 SCR	1.25 days	0%	Thu 3/27/14	Fri 3/28/14		\$2,880	\$2,880	<b>*</b>				
6	11.1 Vacuum SCR Area	8 hrs	0%	Thu 3/27/14	Thu 3/27/14	North American	\$2,880	\$2,880	n Norti A	merican			
7	11.2 SCR Gas Tight	2 hrs	0%	Fri 3/28/14	Fri 3/28/14 156	Maintenance	\$0	\$0	Mainte	nance	$\bot$	,	
8 2	12 Air Preheaters	4.5 days	0%	Thu 3/27/14	Wed 4/2/14		\$3,360	\$3,360					
9 🔁	12.1 6A APH	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$1,680	\$1,680	Щ				
0	12.1.1 Inspect, replace, adjust Seals	12 hrs	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	Mainte	nance	_ _ _	-  -  - -	
1	12.1.2 Service Lubrication System	8 hrs	0%	Fri 3/28/14	Mon 3/31/14 160		\$0	\$0	м	laintenance			
	•					Maintenance	\$1,680	\$1,680					
2	12.1.3 Perform Motor Maintenance	12 hrs	0%	Fri 3/28/14	Mon 3/31/14 160	AAI 2			Mante	MIZ			
3	12.1.4 Change oil in Gearbox	3 hrs	0%	Fri 3/28/14	Fri 3/28/14 160	Maintenance	\$0	\$0	1	mance			
4	12.1.5 Stroke Sootblowers to check travel	4 hrs	0%	Fri 3/28/14	Mon 3/31/14 163	I&E	\$0	\$0	18	iE .			
5	12.1.6 Close Doors	1 hr	0%	Mon 3/31/14	Mon 3/31/14 164	Maintenance	\$0	\$0	M	laintenance			
6	12.2 6B APH	4.5 days	0%	Thu 3/27/14	Wed 4/2/14		\$1,680	\$1,680		7			
7	12.2.1 Inspect, replace, adjust Seals	12 hrs	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	Mainte	nance			

Reactiation Schedule -March 26, 2014 Page 4

168 169 169	Task Name  12.2.2 Service Lubrication System	Duration 8 hrs	% Complete 0%	Start Fri 3/28/14	Finish Predecessors  Mon 3/31/14 167	Resource Names  Maintenance	Remaining Cost \$0	Baseline Cost \$0	4 Mar 23, '14 M S M W F	Mar 30, '14   Apr S   T   T   S   M Maintenance	6, '14 Apı	13, '14 Ap	or 20, '14 Apr 1 W F S
169	·	8 hrs	0%	Fri 3/28/14	Mon 3/31/14 16/	iviaintenance	\$0	\$0	1 : 1 : 1 <b>:</b> -	maintenance			
					_								
	12.2.3 Perform Motor Maintenance	12 hrs	0%	Mon 3/31/14		AAI 2	\$1,680	\$1,680		AAI 2			
170	12.2.4 Change oil in gearbox	4 hrs	0%	Wed 4/2/14	Wed 4/2/14 169	Maintenance	\$0	\$0		Maintenai	nce		
171	12.2.5 Stroke Sootblower to check travel	4 hrs	0%	Thu 3/27/14	Thu 3/27/14	I&E	\$0	\$0	I-I&E				
172	12.2.6 Close doors	3 hrs	0%	Thu 3/27/14	Thu 3/27/14 171	Maintenance	\$0	\$0	Mair	enance			
173	13 Ductwork	0.25 days	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	4				
174	13.1 Inspect ductwork around ID fans	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0	ŢMain	ntenance			
175	14 Turbosorp	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$0	\$0	# ++	7			
176	14.1 Service Process Water Pumps	3 days	0%	Thu 3/27/14	Mon 3/31/14	Maintenance	\$0	\$0		Maintenance	3		
177	15 Baghouse	12 days	0%	Thu 3/27/14	Fri 4/11/14		\$0	\$0			<b></b>		
178	16 Ash Recirculation System	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$420	\$420		<b>.</b>			
179	16.1 Air Slide	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$0	\$0		•			
180	16.1.1 Air Slide Inspection	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	☐ Ma	ntenance			
181	16.1.2 Clean & Calibrate level transducers	3 days	0%	Thu 3/27/14	Mon 3/31/14	I&E	\$0	\$0		I&E			
182	16.2 Duecing Valve	1 day	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0					
183	16.2.1 Inspect and Repair as Needed	1 day	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0		n enance			
	16.2.1 Inspect and Repair as Needed			Thu 3/27/14		ivianiterialite	\$420	\$420					
184		0.38 days	0%			1110					ļļļ		
185	16.3.1 Motor Maintenance	3 hrs	0%	Thu 3/27/14		AAI 2	\$420	\$420		1			
186	16.3.2 Change Oil in Blowers	3 hrs	0%	Thu 3/27/14		Maintenance	\$0	\$0		enance			
187	16.4 Manual Isolation Valves	1 day	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0					
188	17 Stack	4 days	0%	Thu 3/27/14	Tue 4/1/14		\$9,600	\$9,600	-	<b>*</b>			
189	17.1 Perform Stack Inspection	4 days	0%	Thu 3/27/14	Tue 4/1/14	International Chimne	ey \$9,600	\$9,600		Internation	nal Chimne	у	
190	18 Fuel Delivery	19 days	0%	Thu 3/27/14	Tue 4/22/14		\$8,960	\$8,960				##	7
191	18.1 Coal Feeders	3.75 days	0%	Thu 3/27/14	Tue 4/1/14		\$4,480	\$4,480		<del></del>			
192	18.1.1 6A1 Coal Feeder	1.25 days	0%	Thu 3/27/14	Fri 3/28/14		\$1,120	\$1,120	•				
193	18.1.1.1 6A1 Inspect Cleanout conveyor, upper and lower belts	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0	I-Main	enance			
194	18.1.1.2 6A1 Feeder Calibration	4 hrs	0%	Thu 3/27/14	Thu 3/27/14 193	Merrick	\$560	\$560	Mer	/ick			
195	18.1.1.3 6A1 Inspect and Repair Weighing Mechanisms	4 hrs	0%	Thu 3/27/14	Fri 3/28/14 194	Merrick	\$560	\$560	Me	rick			
196	18.1.2 6B2 Coal Feeder	1.5 days	0%	Thu 3/27/14	Fri 3/28/14		\$1,120	\$1,120	•				
197	18.1.2.1 6B2 Inspect Cleanout conveyor, upper and lower belts	2 hrs	0%	Thu 3/27/14	Thu 3/27/14 193	Maintenance	\$0	\$0	Main	nenance			
198	18.1.2.2 6B2 Feeder Calibration	4 hrs	0%	Thu 3/27/14	Fri 3/28/14 197,194	Merrick	\$560	\$560	<mark>∭</mark> ,Me	rick			
199	18.1.2.3 6B2 Inspect and Repair Weighing Mechanisms	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 198	Merrick	\$560	\$560	ĭM₁	rick			
200	18.1.3 6A3 Coal Feeder	2.25 days	0%	Thu 3/27/14	Mon 3/31/14		\$1,120	\$1,120			<b></b>		
201	18.1.3.1 6A3 Inspect Cleanout conveyor, upper and lower belts	2 hrs	0%	Thu 3/27/14	Thu 3/27/14 197	Maintenance	\$0	\$0		enance			
202	18.1.3.2 6A3 Feeder Calibration	4 hrs	0%	Fri 3/28/14	Mon 3/31/14 201.199	Merrick	\$560	\$560	Ш і Ш	Merrick			
							\$560	\$560		Merrick			
203	18.1.3.3 6A3 Inspect and Repair Weighing Mechanisms	4 hrs	0%	Mon 3/31/14		Merrick				Merrick			
204	18.1.4 6B4 Coal Feeder	3 days	0%	Thu 3/27/14			\$1,120	\$1,120					
205	18.1.4.1 6B4 Inspect Cleanout conveyor, upper and lower belts	2 hrs	0%	Thu 3/27/14		Maintenance	\$0	\$0	T Mair	enance			
206	18.1.4.2 6B4 Feeder Calibration	4 hrs	0%	Mon 3/31/14	Tue 4/1/14 205,203	Merrick	\$560	\$560		Merrick			
207	18.1.4.3 6B4 Inspect and Repair Weighing Mechanisms	4 hrs	0%	Tue 4/1/14	Tue 4/1/14 206	Merrick	\$560	\$560		Merrick			
208	18.2 Pulverizers	7 days	0%	Thu 3/27/14	Fri 4/4/14		\$4,480	\$4,480	-	<b>           </b>			
										* * * * * * * * * * * * * * * * * * *			
209	18.2.1 6A1 Mill	1.75 days	0%	Thu 3/27/14	Fri 3/28/14		\$1,120	\$1,120	•				

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ID 1 Task N		Duration	% Complete	Start	Finish Predecessors	Resource Names	Remaining   Baseline   4	Mar 23, '14 Mar 30, '14   Apr 6, '14   Apr 13, '14   Apr 20, '14   Apr 27, '1 S   M   W   F   S   T   T   S   M   W   F   S   T   T   S   M   W   F   S   T   T
210	18.2.1.1 Service Couplings	4 hrs	0%	Thu 3/27/14	Thu 3/27/14	AAI 2	\$560 \$560	I AAI
211	18.2.1.2 Perform Motor Maintenance	4 hrs	0%	Thu 3/27/14	Thu 3/27/14 210	AAI 2	\$560 \$560	TAA:
212	18.2.1.3 Service Oil Cooler	6 hrs	0%	Fri 3/28/14	Fri 3/28/14 211	Maintenance	\$0 \$0	Ma ntenance
213	18.2.1.4 Perform Blast Gate inspection & repair	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 212SS	Maintenance	\$0 \$0	ya Maintenance
214	18.2.1.5 Change Gearbox, Exhauster Bearing Oil	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 213SS	Maintenance	\$0 \$0	Maintenance
215	18.2.1.6 Calibrate Mill & Exhauster Drives	2 hrs	0%	Fri 3/28/14	Fri 3/28/14 214	I&E	\$0 \$0	Dae de la companya de
216	18.2.2 6B2 Mill	1.75 days	0%	Fri 3/28/14	Tue 4/1/14		\$1,120 \$1,120	
217	18.2.2.1 Service Couplings	4 hrs	0%	Fri 3/28/14	Mon 3/31/14 215	AAI 2	\$560 \$560	AAI2
218	18.2.2.2 Perform Motor Maintenance	4 hrs	0%	Mon 3/31/14	Mon 3/31/14 217	AAI 2	\$560 \$560	AAi 2
219	18.2.2.3 Service Oil Cooler	6 hrs	0%	Mon 3/31/14	Tue 4/1/14 218	Maintenance	\$0 \$0	Maintenance
220	18.2.2.4 Perform Blast Gate inspection & repair	4 hrs	0%	Mon 3/31/14	Tue 4/1/14 219SS	Maintenance	\$0 \$0	Maintenance
221	18.2.2.5 Change Gearbox, Exhauster Bearing Oil	4 hrs	0%	Mon 3/31/14	Tue 4/1/14 220SS	Maintenance	\$0 \$0	Maintenance
222	18.2.2.6 Calibrate Mill & Exhauster Drives	2 hrs	0%	Tue 4/1/14	Tue 4/1/14 221	I&E	\$0 \$0	, TåE
223	18.2.3 6A3 Mill	1.75 days	0%	Tue 4/1/14	Thu 4/3/14		\$1,120 \$1,120	
224	18.2.3.1 Service Couplings	4 hrs	0%	Tue 4/1/14	Tue 4/1/14 222	AAI 2	\$560 \$560	raai2
225	18.2.3.2 Perform Motor Maintenance	4 hrs	0%	Wed 4/2/14	Wed 4/2/14 224	AAI 2	\$560 \$560	TAAI 2
226	18.2.3.3 Service Oil Cooler	6 hrs	0%	Wed 4/2/14	Thu 4/3/14 225	Maintenance	\$0 \$0	A Maintenance
227	18.2.3.4 Perform Blast Gate inspection & repair	4 hrs	0%	Wed 4/2/14	Wed 4/2/14 226SS	Maintenance	\$0 \$0	Maintenance
228	18.2.3.5 Change Gearbox, Exhauster Bearing Oil	4 hrs	0%	Wed 4/2/14	Wed 4/2/14 227SS	Maintenance	\$0 \$0	Maintenance
229	18.2.3.6 Calibrate Mill & Exhauster Drives	2 hrs	0%	Thu 4/3/14	Thu 4/3/14 228	I&E	\$0 \$0	1,48E
230	18.2.4 6B4 Mill	1.75 days	0%	Thu 4/3/14	Fri 4/4/14		\$1,120 \$1,120	
231	18.2.4.1 Service Couplings	4 hrs	0%	Thu 4/3/14	Thu 4/3/14 229	AAI 2	\$560 \$560	AAI 2
232	18.2.4.2 Perform Motor Maintenance	4 hrs	0%	Thu 4/3/14	Fri 4/4/14 231	AAI 2	\$560 \$560	AAI 2
233	18.2.4.3 Service Oil Cooler	6 hrs	0%	Fri 4/4/14	Fri 4/4/14 232	Maintenance	\$0 \$0	Maintenance
234	18.2.4.4 Perform Blast Gate inspection & repair	4 hrs	0%	Fri 4/4/14	Fri 4/4/14 233SS	Maintenance	\$0 \$0	Maintenance
235	18.2.4.5 Change Gearbox, Exhauster Bearing Oil	4 hrs	0%	Fri 4/4/14	Fri 4/4/14 234SS	Maintenance	\$0 \$0	Maintenance
236	18.2.4.6 Calibrate Mill & Exhauster Drives	2 hrs	0%	Fri 4/4/14	Fri 4/4/14 235	I&E	\$0 \$0	flat
237	18.3 Burners	12 days	0%	Mon 4/7/14	Tue 4/22/14		\$0 \$0	
238	18.3.1 A Corner	3 days	0%	Mon 4/7/14	Wed 4/9/14		\$0 \$0	
239	18.3.1.1 Burner Inspection	2 days	0%	Mon 4/7/14	Tue 4/8/14 236	Maintenance	\$0 \$0	Maintenance
240	18.3.1.2 Adjust air buckets and coal bucket linkage	4 hrs	0%	Wed 4/9/14	Wed 4/9/14 239	Maintenance	\$0 \$0	Maintenance T
241	18.3.1.3 Inspect SOFA Nozzles & Ports	2 hrs	0%	Wed 4/9/14	Wed 4/9/14 240	Maintenance	\$0 \$0	Maintenance
242	18.3.1.4 Inspect Biomass Burner	2 hrs	0%	Wed 4/9/14	Wed 4/9/14 241	Maintenance	\$0 \$0	Maintenance
243	18.3.2 B Corner	3 days	0%	Thu 4/10/14	Mon 4/14/14		\$0 \$0	
244	18.3.2.1 Burner Inspection	2 days	0%	Thu 4/10/14	Fri 4/11/14 242	Maintenance	\$0 \$0	Maintenance
245	18.3.2.2 Adjust air buckets and coal bucket linkage	4 hrs	0%	Mon 4/14/14	Mon 4/14/14 244	Maintenance	\$0 \$0	Maintenance
246	18.3.2.3 Inspect SOFA Nozzles & Ports	2 hrs	0%	Mon 4/14/14	Mon 4/14/14 245	Maintenance	\$0 \$0	Maintenance
247	18.3.2.4 Inspect Biomass Burner	2 hrs	0%	Mon 4/14/14	Mon 4/14/14 246	Maintenance	\$0 \$0	I Maintenance
248	18.3.3 C Corner	3 days	0%	Tue 4/15/14	Thu 4/17/14		\$0 \$0	
249	18.3.3.1 Burner Inspection	2 days	0%	Tue 4/15/14	Wed 4/16/14 247	Maintenance	\$0 \$0	Maintenance
250	18.3.3.2 Adjust air buckets and coal bucket linkage	4 hrs	0%	Thu 4/17/14	Thu 4/17/14 249	Maintenance	\$0 \$0	Maintenance
251	18.3.3.3 Inspect SOFA Nozzles & Ports	2 hrs	0%	Thu 4/17/14	Thu 4/17/14 250	Maintenance	\$0 \$0	I Maintenance
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0	ask Name	Duration	% Complete	Start	Finish Predecessors		Remaining Baseline Cost Cost	4 Mar 23, '14 Ma S M W F S	r 30, '14   Apr 6, '1	14   Apr 13, '14   Apr 20,   F   S   T   T   S   M   W	, '14 Apr
252	18.3.3.4 Inspect Biomass Burner	2 hrs	0%	Thu 4/17/14		Maintenance	\$0	\$0		KMaintenar	nce
253	18.3.4 D Corner	3 days	0%	Fri 4/18/14	Tue 4/22/14		\$0	\$0			
254	18.3.4.1 Burner Inspection	2 days	0%	Fri 4/18/14	Mon 4/21/14 252	Maintenance	\$0	\$0		Mai	iintenanc
:55	18.3.4.2 Adjust air buckets and coal bucket linkage	4 hrs	0%	Tue 4/22/14	Tue 4/22/14 254	Maintenance	\$0	\$0		T-Ma	laintenan
56	18.3.4.3 Inspect SOFA Nozzles & Ports	2 hrs	0%	Tue 4/22/14	Tue 4/22/14 255	Maintenance	\$0	\$0		T.Ma	Maintenan
57	18.3.4.4 Inspect Biomass Burner	2 hrs	0%	Tue 4/22/14	Tue 4/22/14 256	Maintenance	\$0	\$0		im.	<b>Aaintenar</b>
58	18.4 Windbox Maintenance	1 day	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0 <b>W</b>			
59	18.4.1 Open Windbox Doors	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 <b>X</b> Maint	enance		
50	18.4.2 Inspect Windbox	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 <b>X</b> Maint	nance		
51	18.4.3 Inspect Fuel Aux. Air Dampers	8 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 g Main	anance		
2	18.4.4 Close Windbox	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 <b>X</b> Maint	nance		
3	18.5 Igniters	2 days	0%	Thu 3/27/14	Fri 3/28/14		\$0	\$0			
54	18.5.1 PM all Igniters	2 days	0%	Thu 3/27/14	Fri 3/28/14	Operations	\$0	\$0 <b>Op</b>	rations		
65	19 (SNCR) Urea Injection System	4 days	0%	Thu 3/27/14	Tue 4/1/14		\$0	\$0	•		
66	19.1 Inspect & Repair all Urea Nozzles	2 days	0%	Mon 3/31/14	Tue 4/1/14 264	Operations	\$0	\$0	Operations		
57 <b>()</b> ()	19.2 Change Compressed Air Filters	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	I&E		\$0 II&E			
58	19.3 Check PLC Program	2 days	0%	Thu 3/27/14	Fri 3/28/14	Fuel Tech		\$0 <b>=</b> Fu	Tech		
59	20 Feedwater System	3 days	0%	Thu 3/27/14		r der reen	\$6,720 \$6,7	-         T			
-								so oto			
0	20.1 Feedwater Heaters	2 days	0%	Thu 3/27/14		105					
1	20.1.1 Twipp Test	2 days	0%	Thu 3/27/14	Fri 3/28/14	I&E		\$0 👛 I&E			
2	20.2 Boiler Feedwater Pumps	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$6,720 \$6,7		<u> </u>		
3	20.2.1 Service Motors	3 days	0%	Thu 3/27/14	Mon 3/31/14	AAI 2	\$3,360 \$3,5	60	AAI 2		
4	20.2.2 Replace Cooler Covers	1 day	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 <b>p</b> Main	nance		
5	20.2.3 Repair Cooling Water Lines	3 days	0%	Thu 3/27/14	Mon 3/31/14	Pipefitter 2	\$3,360 \$3,5	60	Pipefitter 2		
6	20.2.4 Replace Pump Bearing Oil	1 day	0%	Fri 3/28/14	Fri 3/28/14 274	Maintenance	\$0	\$0 Mar	itenance		
7	21 Condensate System	2 days	0%	Thu 3/27/14	Fri 3/28/14		\$2,240 \$2,2	40 🕶			
8	21.1 6A Condensate Pump	1 day	0%	Thu 3/27/14	Thu 3/27/14		\$1,120 \$1,1	20 🖫			
9	21.1.1 Change Motor Bearing Oil	4 hrs	0%	Thu 3/27/14	Thu 3/27/14	AAI 2	\$560 \$5	60 <b>I-</b> AAI 2			
0 📆	21.1.2 Motor maintenance	4 hrs	0%	Thu 3/27/14	Thu 3/27/14 279	AAI 2	\$560 \$5	60 AAI:			1
1 1	21.2 6B Condensate Pump	1 day	0%	Fri 3/28/14	Fri 3/28/14		\$1,120 \$1,1	20			
2	21.2.1 Change Motor Bearing Oil	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 280	AAI 2	\$560 \$5	60 <b>T</b> AAI	2		
3	21.2.2 Motor maintenance	4 hrs	0%	Fri 3/28/14	Fri 3/28/14 282	AAI 2	\$560 \$5	60 <b>T</b> AA	2		
4	22 Condensate Return System	5.5 days	0%	Thu 3/27/14	Thu 4/3/14		\$0	\$0	<b>→</b>		
15	22.1 6B Condensate Return Pump - service	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0 <u> </u>	ntenance		
36	22.2 Low Pressure Heaters	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$0	\$0	,		
B7 [2]	22.2.1 Twipp Low pressure heaters	3 days	0%	Thu 3/27/14		I&E	\$0	\$0	I&E		
88	22.2.2 22nd Heater inspect & repair	2 days	0%	Thu 3/27/14		I&E	\$0	\$0 👛 1&E			
9	22.3 Deaerator Tank	5.5 days	0%	Thu 3/27/14		· <del></del>		\$0	<b>_</b>		
90	22.3.1 Inspection & Repair as needed			Thu 3/27/14		Maintenance		\$0	Maintenance		
		36 hrs	0%			Maintenance		\$0	Maintenance		
91	22.3.2 Close Doors	8 hrs	0%	Wed 4/2/14		Maintenance			maintenanc		
92	23 Circulating Water System	7.75 days	0%	Thu 3/27/14				\$0	<b>~~~</b>		
33	23.1 Service Vacuum Priming System	8 hrs	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0 Main	enance		

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ID 3	Task Name		Complete	Start Fri 2/20/44		Predecessors Resource Names	Remaining Cost \$0	Baseline 4 Cost S	Mar 23, '14   M   W   F	Mar 30, '14 S T T Maintenanc	Apr 6, '1 S M W	14 Apr 13,	14 Apr 20 T S M V	, '14 Apr 27
294		6 hrs	0%	Fri 3/28/14	Fri 3/28/14 2					namenanc				
295	23.3 Pull Prime	6 days	0%	Fri 3/28/14	Mon 4/7/14 2	294 Operations	\$0	\$0			Oper	rations		
296	23.4 Energize and Service Circulating Water Pumps	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	🖶 '	/la ntenanc	æ			
297	24 Material Handling System	3 days	0%	Thu 3/27/14	Mon 3/31/14		\$3,360	\$3,360	1	<b>-</b> 7				
298	24.1 Inspect Railroad Switches	3 days	0%	Thu 3/27/14	Mon 3/31/14	Track Maintenance	\$3,360	\$3,360	🖶	Track I	Maintenar	nce		
299	24.2 Operate Locomotive	1 day	0%	Thu 3/27/14	Thu 3/27/14	Maintenance	\$0	\$0	g M	ain enance				
300	24.3 Energize and Operate Conveyors	3 days	0%	Thu 3/27/14	Mon 3/31/14	Maintenance	\$0	\$0	–	Mainte	nance			
301	24.4 Inspect and Operate Crusher	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	🖕	Ma ntenanc	;e			
302	25 Ash Removal System	2 days	0%	Thu 3/27/14	Fri 3/28/14		\$0	\$0	•					
303	25.1 Main Silo	2 days	0%	Thu 3/27/14	Fri 3/28/14		\$0	\$0	•					
304	25.1.1 Internal Stone Inspection	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	.	Ma ntenanc	;e			
305	25.1.2 Close and Energize	2 days	0%	Thu 3/27/14	Fri 3/28/14	Maintenance	\$0	\$0	ļ ļ 🖕 ı	Ma ntenanc	;e			
306		1 day	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	0					
307	25.3 #2 Ash Silo	1 day	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	0					
308	26 High Energy, Piping, and Misc. Inspection	7 days	0%	Thu 3/27/14	Fri 4/4/14		\$11,200	\$11,200		<del></del> -	,			
309	26.1 Steam Drum	24 hrs	0%	Thu 3/27/14	Mon 3/31/14	QIS	\$4,800	\$4,800	1   🚣	QIS				
310	26.2 Downcomers	8 hrs	0%	Tue 4/1/14	Tue 4/1/14	309 QIS	\$1,600	\$1,600	$\mathbb{H}$	QIS				+
311	26.3 Desuperheaters / Spray Attemperators	8 hrs	0%	Wed 4/2/14	Wed 4/2/14 3		\$1,600	\$1,600		QIS	3			
312	26.4 Turbosorp Dry Scrubber	8 hrs	0%	Thu 4/3/14	Thu 4/3/14		\$1,600	\$1,600		, J.Q.				
313	26.5 Boiler Waterwall Survey	8 hrs	0%	Fri 4/4/14	Fri 4/4/14 3		\$1,600	\$1,600			QIS			
314						I&E	\$0	\$0						
	27 Calibrations	16.75 days	0%	Thu 3/27/14	Fri 4/18/14	I&E			IJΙ					
315	27.1 Main Steam	1.5 days	0%	Thu 3/27/14	Fri 3/28/14		\$0	\$0						
316	27.1.1 Main Steam Pressure	2 hrs	0%	Thu 3/27/14	Thu 3/27/14	I&E	\$0	\$0	I-18.1					
317	27.1.2 Main Steam Temp.	2 hrs	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	<b>F</b> 1&1					
318	27.1.3 Main Steam Temp.	2 hrs	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	118					
319	27.1.4 Main Steam Flow	2 hrs	0%	Thu 3/27/14	Thu 3/27/14		\$0	\$0	<b>18</b> 18	E				
320	27.1.5 1st Stage Pressure	2 hrs	0%	Fri 3/28/14	Fri 3/28/14	319 I&E	\$0	\$0	Į.	&E				
321	27.1.6 Steam Flow Loop	2 hrs	0%	Fri 3/28/14	Fri 3/28/14	320 I&E	\$0	\$0	Ĭ	šE				
322	27.2 Reheat Steam	1.5 days	0%	Fri 3/28/14	Mon 3/31/14		\$0	\$0		7				
323	27.2.1 Cold Reheat steam flow	2 hrs	0%	Fri 3/28/14	Fri 3/28/14	321 I&E	\$0	\$0	ř	&E				
324	27.2.2 Cold Reheat Temp.	2 hrs	0%	Fri 3/28/14	Fri 3/28/14	323 I&E	\$0	\$0	ř	&E				
325	27.2.3 Cold reheat Pressure	2 hrs	0%	Mon 3/31/14	Mon 3/31/14	324 I&E	\$0	\$0		I&E				
326	27.2.4 Hot Reheat Temp. N Intercept	2 hrs	0%	Mon 3/31/14	Mon 3/31/14	325 I&E	\$0	\$0		í&E				
327	27.2.5 Hot Reheat Temp S Intercept	2 hrs	0%	Mon 3/31/14	Mon 3/31/14	326 I&E	\$0	\$0		i&E				
328	27.2.6 Hot Reheat Pressure	2 hrs	0%	Mon 3/31/14	Mon 3/31/14	327 I&E	\$0	\$0		ī&E				
329	27.3 Steam Drum	0.5 days	0%	Tue 4/1/14	Tue 4/1/14		\$0	\$0		w .				
330	27.3.1 Drum Level Control Loop	2 hrs	0%	Tue 4/1/14	Tue 4/1/14	328 I&E	\$0	\$0		J.I&E				1
331	27.3.2 Drum Pressure Loop	2 hrs	0%	Tue 4/1/14	Tue 4/1/14	330 I&E	\$0	\$0		₹ĭ&E				
332	27.4 Crossover	0.5 days	0%	Tue 4/1/14	Tue 4/1/14		\$0	\$0		•				
333	27.4.1 Crossover Temp.	2 hrs	0%	Tue 4/1/14	Tue 4/1/14	331 I&E	\$0	\$0		<b>ĭ</b> i&E				
334	27.4.2 Crossover Pressure	2 hrs	0%	Tue 4/1/14	Tue 4/1/14	333 I&E	\$0	\$0		I &E				
335	27.5 Condenser	0.75 days	0%	Wed 4/2/14	Wed 4/2/14		\$0	\$0	+++					+
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ID 👩	Task Name	Duration % 0	Complete	Start		Predecessors Resource Names	Remaining Baseline 4 Mar 23 Cost Cost S M V	3, '14 Mar 30, '14 Apr 6, '14 Apr 13, '14 Apr 20, '14 Apr 27 W F S T T S M W F S T T S M W F S T
336	27.5.1 Condenser Pressure	2 hrs	0%	Wed 4/2/14	Wed 4/2/14	334 I&E	\$0 \$0	I-iae
337	27.5.2 Condenser Pressure	2 hrs	0%	Wed 4/2/14	Wed 4/2/14	336 I&E	\$0 \$0	riae i
338	27.5.3 Condenser Hotwell Level Loop	2 hrs	0%	Wed 4/2/14	Wed 4/2/14	337 I&E	\$0 \$0	<b>Ā</b> I&E
339	27.6 Economizer	0.75 days	0%	Wed 4/2/14	Thu 4/3/14		\$0 \$0	<b>.</b>
340	27.6.1 Economizer Inlet Temp.	2 hrs	0%	Wed 4/2/14	Wed 4/2/14	338 I&E	\$0 \$0	riae
341	27.6.2 Economizer Inlet Temp.	2 hrs	0%	Thu 4/3/14	Thu 4/3/14		\$0 \$0	ŢJAE
342	27.6.3 Economizer Inlet Temp.	2 hrs	0%	Thu 4/3/14	Thu 4/3/14		\$0 \$0	LIAE
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343	27.7 SCR	0.75 days	0%	Thu 4/3/14	Fri 4/4/14		\$0 \$0	
344	27.7.1 SCR Inlet Temp	2 hrs	0%	Thu 4/3/14	Thu 4/3/14		\$0 \$0	LiaE
345	27.7.2 SCR Inlet Temp	2 hrs	0%	Thu 4/3/14	Thu 4/3/14	344 I&E	\$0 \$0	I &E
346	27.7.3 SCR Inlet Temp	2 hrs	0%	Fri 4/4/14	Fri 4/4/14	345 I&E	\$0 \$0	Ţisē
347	27.8 Air Heater	1.5 days	0%	Fri 4/4/14	Mon 4/7/14		\$0 \$0	
348	27.8.1 6A Air Heater Exit Air A Temp	2 hrs	0%	Fri 4/4/14	Fri 4/4/14	346 I&E	\$0 \$0	I <mark>X</mark> 8E
349	27.8.2 6A Air Heater Exit Air B Temp	2 hrs	0%	Fri 4/4/14	Fri 4/4/14	348 I&E	\$0 \$0	<b>‡</b> a∈
350	27.8.3 6B Air Heater Exit Air A Temp	2 hrs	0%	Fri 4/4/14	Fri 4/4/14	349 I&E	\$0 \$0	rise
351	27.8.4 6B Air Heater Exit Air B Temp	2 hrs	0%	Mon 4/7/14	Mon 4/7/14	350 I&E	\$0 \$0	₹,8E
352	27.8.5 Air Heater SB Steam Flow Loop	4 hrs	0%	Mon 4/7/14	Mon 4/7/14		\$0 \$0	Si&E
353	27.9 Feedwater	0.75 days	0%	Mon 4/7/14	Tue 4/8/14		\$0 \$0	
-								Ţ.S.E
354	27.9.1 Feedwater Flow Start-up & Main Loop	2 hrs	0%	Mon 4/7/14	Mon 4/7/14			
355	27.9.2 Final Feedwater Temperature	2 hrs	0%	Tue 4/8/14	Tue 4/8/14		\$0 \$0	, all all all all all all all all all al
356	27.9.3 Feedwater Pressure	2 hrs	0%	Tue 4/8/14	Tue 4/8/14	355 I&E	\$0 \$0	Ţ <mark>ā</mark> šĖ
357	27.10 Condensate	0.25 days	0%	Tue 4/8/14	Tue 4/8/14		\$0 \$0	
358	27.10.1 Condensate Flow	2 hrs	0%	Tue 4/8/14	Tue 4/8/14	356 I&E	\$0 \$0	<b>∏</b> a.E
359	27.11 Fans & Boiler Draft	1.75 days	0%	Tue 4/8/14	Thu 4/10/14	,	\$0 \$0	+
360	27.11.1 ID, FD, & Combination Air Flow Loops Check	2 hrs	0%	Tue 4/8/14	Tue 4/8/14	357 I&E	\$0 \$0	<u>j</u> jae
361	27.11.2 FD Air Inlet Temp	2 hrs	0%	Wed 4/9/14	Wed 4/9/14	360 I&E	\$0 \$0	Ţ.I&E
362	27.11.3 Furnace Draft Control Loop	2 hrs	0%	Wed 4/9/14	Wed 4/9/14	361 I&E	\$0 \$0	Ţ8.E
363	27.11.4 Boiler Air Flow	2 hrs	0%	Wed 4/9/14	Wed 4/9/14		\$0 \$0	<b>∑</b> &E
364	27.11.5 Secondary Air (Windbox) pressure	2 hrs	0%	Wed 4/9/14	Wed 4/9/14		\$0 \$0	Ži&E
							\$0 \$0	T-1&E
365	27.11.6 Overfire Air Pressure	2 hrs	0%	Thu 4/10/14	Thu 4/10/14			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
366	27.11.7 Overfire Air Flow	2 hrs	0%	Thu 4/10/14	Thu 4/10/14		\$0 \$0	, ale
367	27.12 Fuel System	1.25 days	0%	Thu 4/10/14	Fri 4/11/14		\$0 \$0	1   T
368	27.12.1 Mill Inlet Pressure	2 hrs	0%	Thu 4/10/14	Thu 4/10/14	366 I&E	\$0 \$0	Tae
369	27.12.2 Outlet Draft	2 hrs	0%	Thu 4/10/14	Thu 4/10/14	368 I&E	\$0 \$0	řίαΕ
370	27.12.3 Discharge Pressure	2 hrs	0%	Fri 4/11/14	Fri 4/11/14	369 I&E	\$0 \$0	T, &E
371	27.12.4 Outlet Pressure	2 hrs	0%	Fri 4/11/14	Fri 4/11/14	370 I&E	\$0 \$0	, see
372	27.12.5 Mill & Exhauster Drives	2 hrs	0%	Fri 4/11/14	Fri 4/11/14	371 I&E	\$0 \$0	<mark>,</mark> tae
373	27.13 Misc.	5 days	0%	Fri 4/11/14	Fri 4/18/14		\$0 \$0	
374	27.13.1 Barometric Pressure	2 hrs	0%	Fri 4/11/14	Fri 4/11/14		\$0 \$0	<b>ŗ</b> 184Ę
375	27.13.2 Sootblower Steam Flow Loop	2 hrs	0%	Mon 4/14/14	Mon 4/14/14		\$0 \$0	
376	27.13.2 Southlower Steam Flow Loop  27.13.3 Total SH Spray Water Flow Loop		0%	Mon 4/14/14	Mon 4/14/14		\$0 \$0	il8E
	21.13.3 Total 3FI Spray Water Flow Loop	4 hrs	υ%	Mon 4/14/14	WON 4/14/14	J/J I&E	au au	i i i i i i i i i i i i i i i i i i i
377	27.13.4 RH Spray Water Flow Loop	4 hrs	0%	Mon 4/14/14	Tue 4/15/14	376 I&E	\$0 \$0	Ž,I&E

### **FNCLOSURE 2**

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ID		Task Name	Duration	% Complete	Start	Finish	Predecessors	Resource Names	Remaining Cost	Baseline Cost	4 Mar 23, '	4 Mar 30	), '14 Apr 6	3, '14 Apr	13, '14 Apr 20, '1 T   T   S   M   W	14 Apr 27, '1
378		27.13.5 Blowdown Flow Loop	4 hrs	0%	Tue 4/15/14	Tue 4/15/14	377	I&E	\$0				I IS IM IV	W F IS	J&E	F 18 11 11
379	<b></b>	27.13.6 8th STG Heater Drip Flows	4 hrs	0%	Tue 4/15/14	Wed 4/16/14	378	I&E	\$0	S				ì	18E	
380	<b></b>	27.13.7 SH Steam Flow Loop	4 hrs	0%	Wed 4/16/14	Wed 4/16/14	379	I&E	\$0	S					N&E	
381	<b></b>	27.13.8 Feedwater Heater Level Control Loop	4 hrs	0%	Wed 4/16/14	Thu 4/17/14	380	I&E	\$0	S					₫ I&E	
382	<b></b>	27.13.9 DA Tank Level Loop	4 hrs	0%	Thu 4/17/14	Thu 4/17/14	381	I&E	\$0	S					Fi&E	
383	<b></b>	27.13.10 Megawatt Meter Calibration - NYSEG	4 hrs	0%	Thu 4/17/14	Fri 4/18/14	382	I&E	\$0	\$0					₫-I&E	
384	<b></b>	27.13.11 Switchboard Transducers	4 hrs	0%	Fri 4/18/14	Fri 4/18/14	383	I&E	\$0	S					FI&E	
385		28 Continuous Emissions Monitor	5 days	0%	Thu 3/27/14	Fri 3/28/14			\$0	\$0	₩.	7				
386		28.1 Server Maintenance	3 days	0%	Thu 3/27/14	Fri 3/28/14			\$0	\$(						
387		28.2 Umbilical Maintenance	3 days	0%	Thu 3/27/14	Fri 3/28/14			\$0	SI	•					.
388		28.3 Probe Maintenance	2 days	0%	Thu 3/27/14	Thu 3/27/14			\$0	S	0					
389		28.4 Analyzer Maintenance	5 days	0%	Thu 3/27/14	Fri 3/28/14			\$0	S	<b> </b>	1				
390	4	29 Start-up	3.63 days	0%	Fri 4/18/14	Thu 4/24/14			\$0	\$0						
391		29.1 Boiler Released	0 hrs	0%	Fri 4/18/14	Fri 4/18/14	157,384	Operations	\$0	S					4/18	
392		29.2 Insert Oxygen Probes	1 hr	0%	Fri 4/18/14	Fri 4/18/14	391SS	I&E	\$0	\$0					<b>Jg</b> I&E	
393	<b></b>	29.3 Tags Cleared, Fill Boiler, Start Fans	8 hrs	0%	Fri 4/18/14	Mon 4/21/14	391	Operations	\$0	S					Opera	rations
394	<b></b>	29.4 Purge, Start Oil guns	1 hr	0%	Mon 4/21/14	Mon 4/21/14	393	Operations	\$0	S					COpera	ations
395	<b></b>	29.5 Warm-up	20 hrs	0%	Mon 4/21/14	Thu 4/24/14	394	Operations	\$0	\$(						Operations
396	<b>-</b>	29.6 B4-72 Closed Unit Online	0 hrs	0%	Thu 4/24/14	Thu 4/24/14	395	Operations	\$0	S					*	4/24